

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 02-060696

(43)Date of publication of application : 01.03.1990

(51)Int.Cl.

D06F 37/10
D06F 58/28

(21)Application number : 63-212215

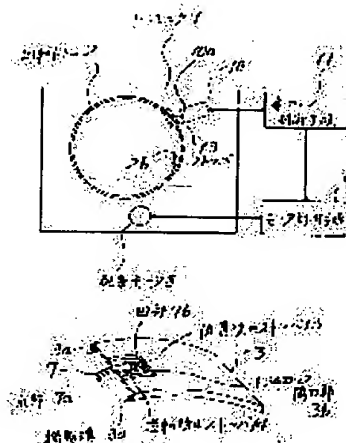
(71)Applicant : MITSUBISHI ELECTRIC CORP

(22)Date of filing : 26.08.1988

(72)Inventor : OSADA MASASHI
YOSHIDA YOSHIO
KUKINO MASAJI
TAKIGAWA HIROYOSHI**(54) DOOR OPENING AND CLOSING DEVICE FOR ROTARY DRUM****(57)Abstract:**

PURPOSE: To position the opening part of a rotary drum without using a brake and a position sensor and to automatically execute the opening and closing of a drum door by locking or lock-canceling a door stopper to the rotary drum with a lock pin and positioning the rotary drum through a stopper to a door opening and closing position.

CONSTITUTION: A lock pin 10a is advanced to a position, in which the lock pin is engaged with a stopper 13, and the stopper 13 is engaged to the lock pin 10a by the rotation of the rotary drum. Then, a rotary drum 2 is positioned to the door opening and closing position and the lock pin 10a is further advanced. After the lock of a door stopper 7 is canceled, the rotary drum 2 is rotated until an opening part 2a is full opened. Then, the door of the drum is developed. The door stopper 7 is caused to be in a lock cancel condition by the lock pin 10a and the rotary drum 2 is rotated in a door-opening direction. Then, the rotary drum 2 is rotated in the door-opening direction until the opening part 10a is full closed. After that, the door of the drum is closed. When the rotary drum 2 is stopped, the door stopper 7 is caused to be in a lock condition by backing the lock pin 10a and a drum door 3 is locked to the rotary drum 2.

**LEGAL STATUS**

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]